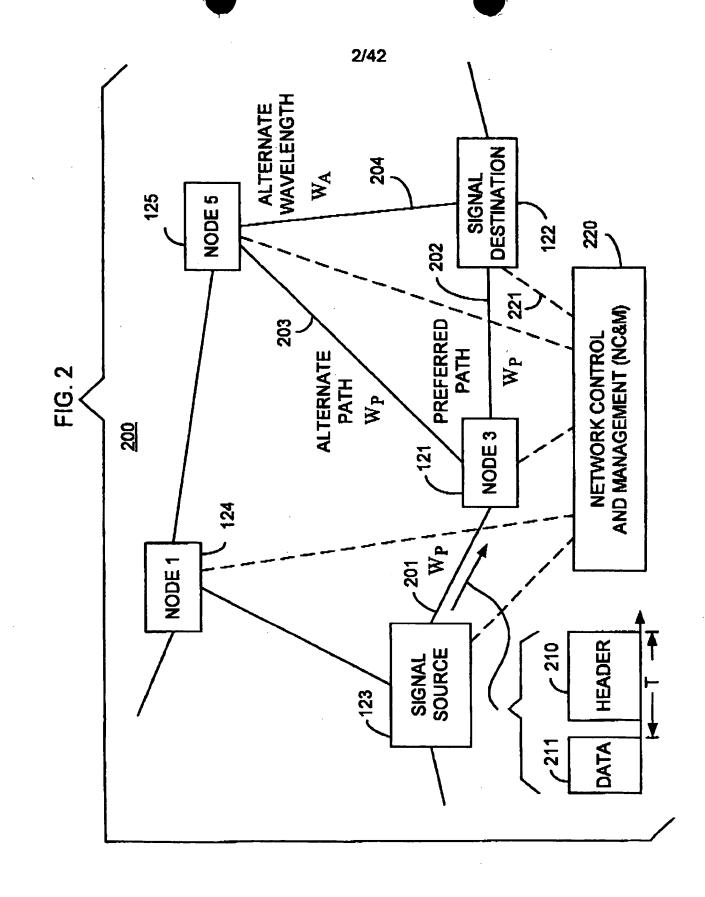


FIG. 1



J.,

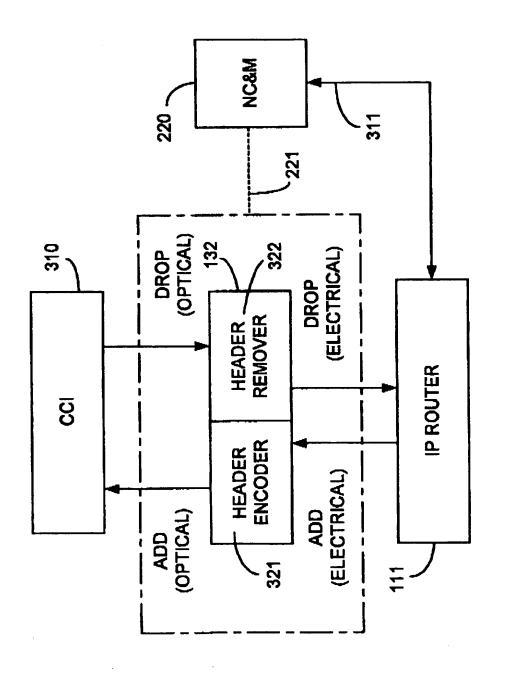


FIG. 3

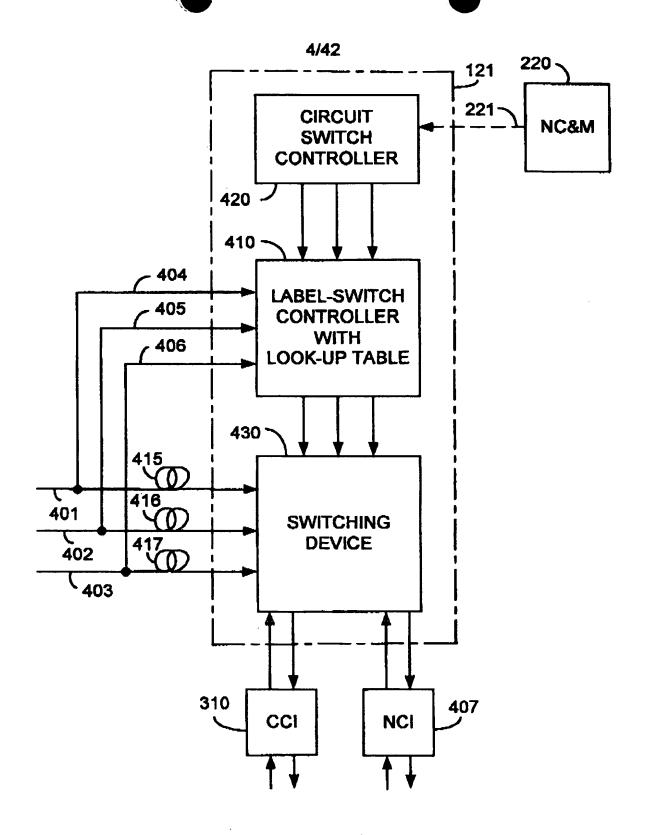
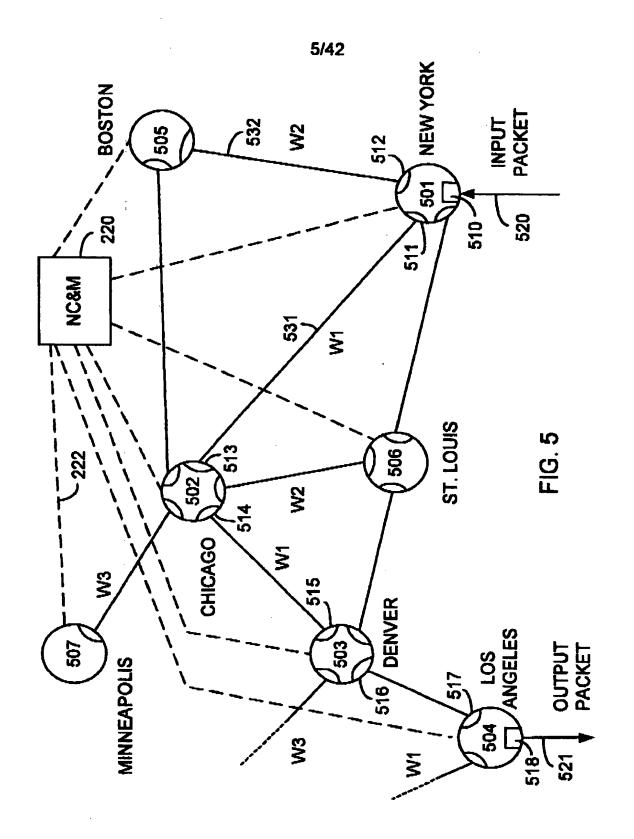


FIG. 4



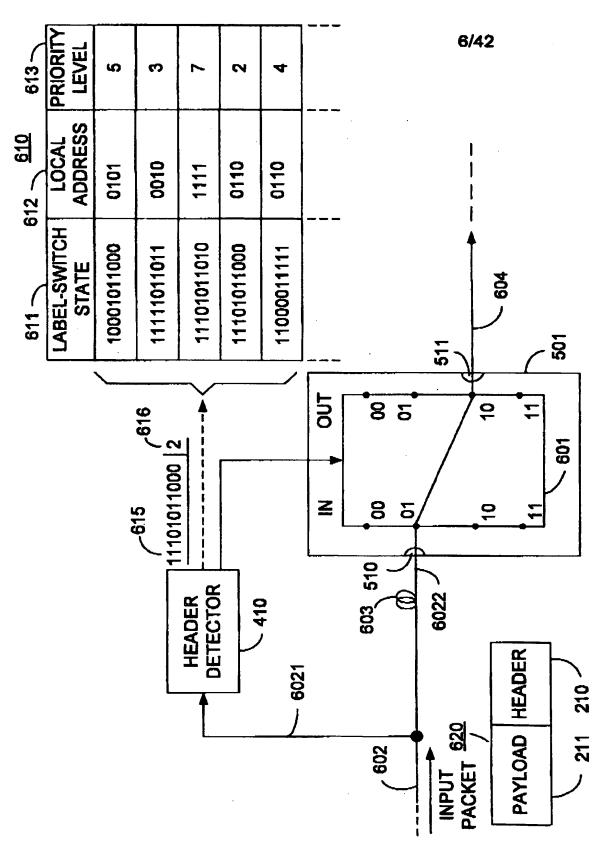


FIG. 6

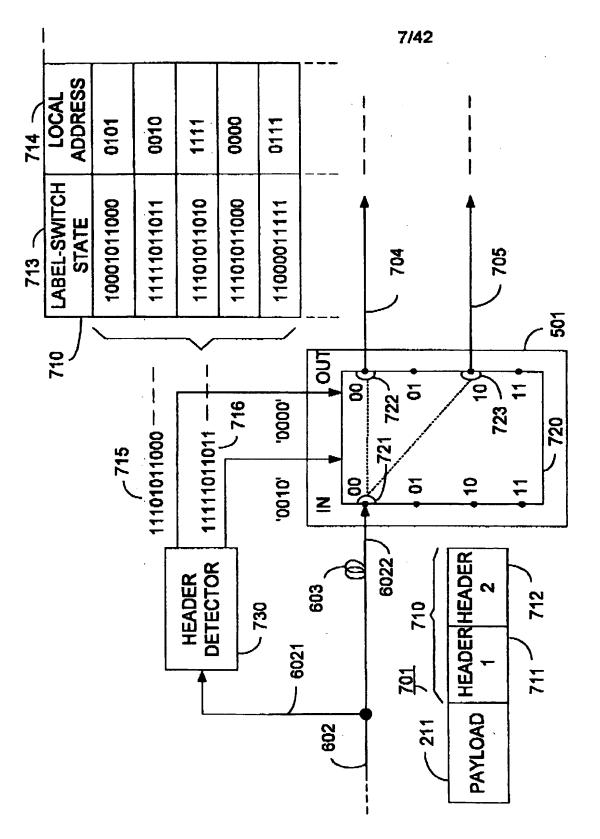
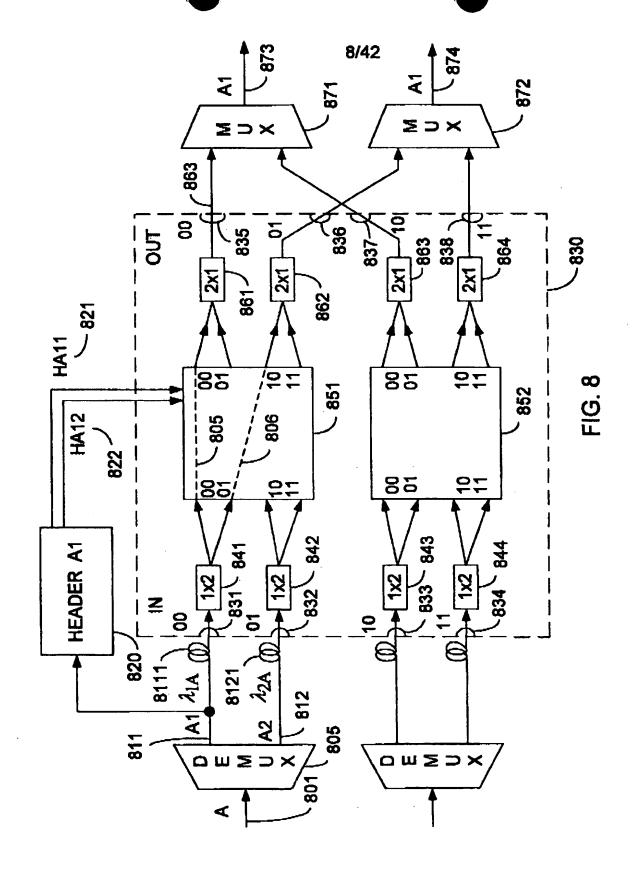
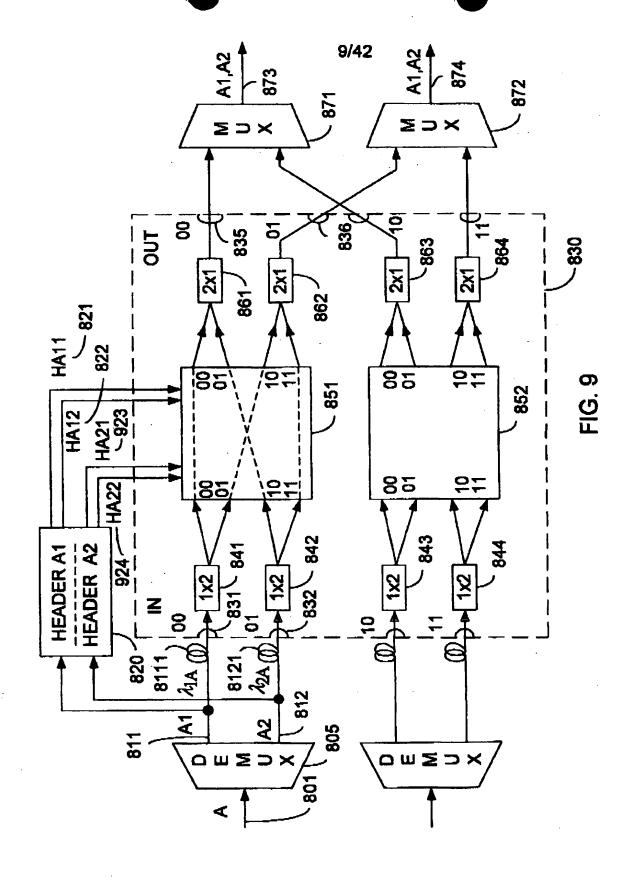
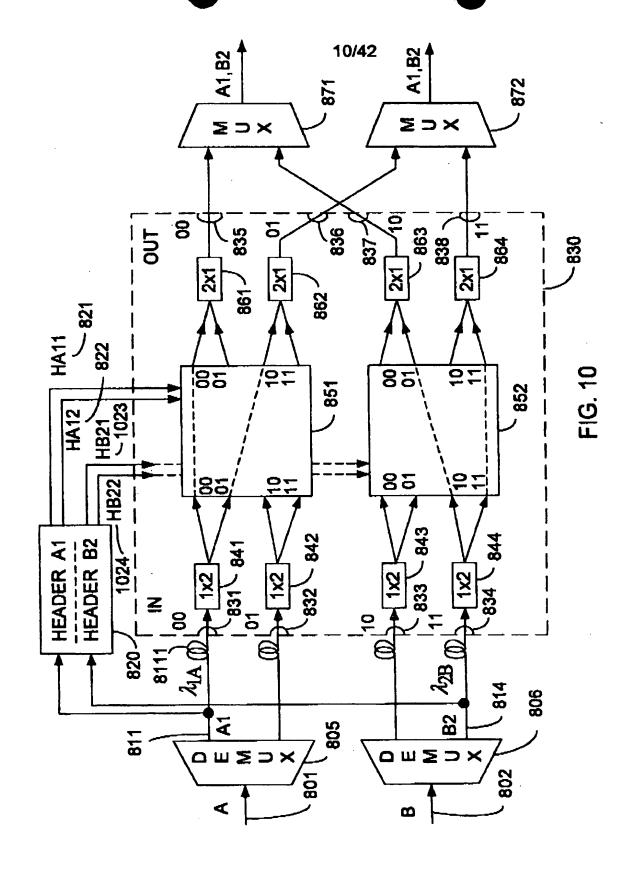


FIG. 7







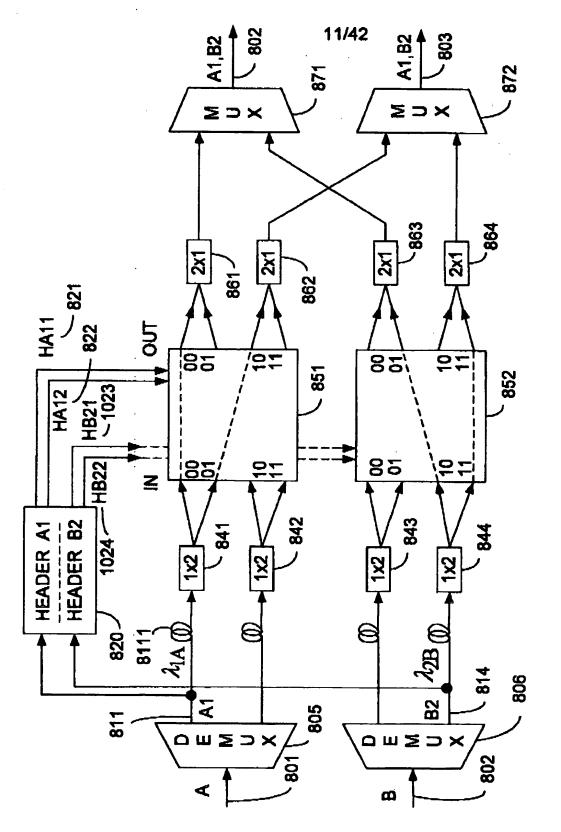
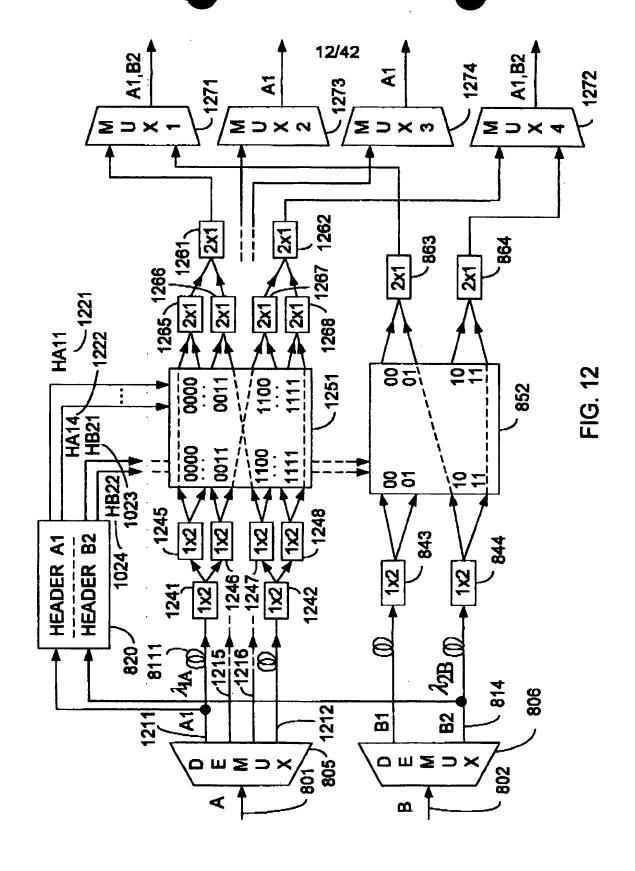
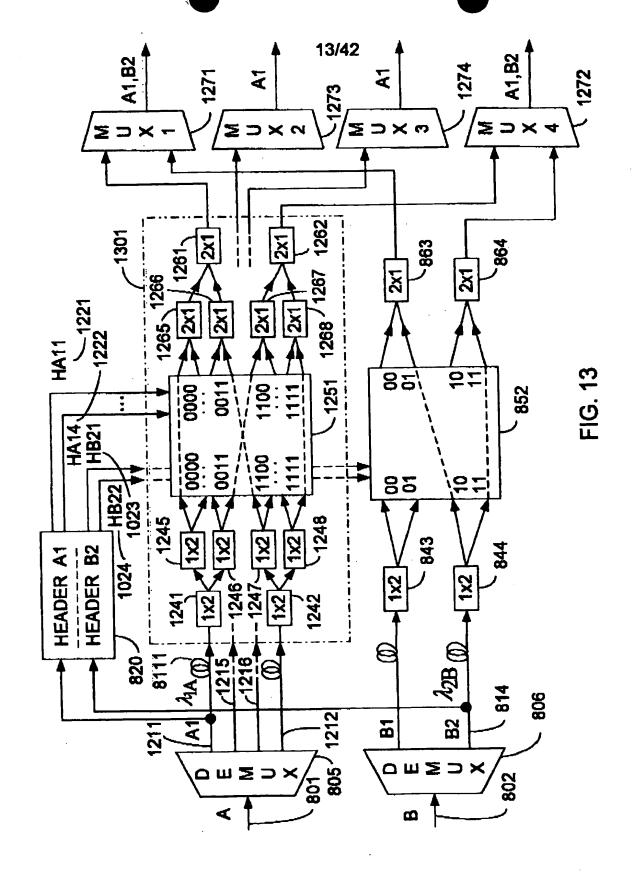


FIG. 11





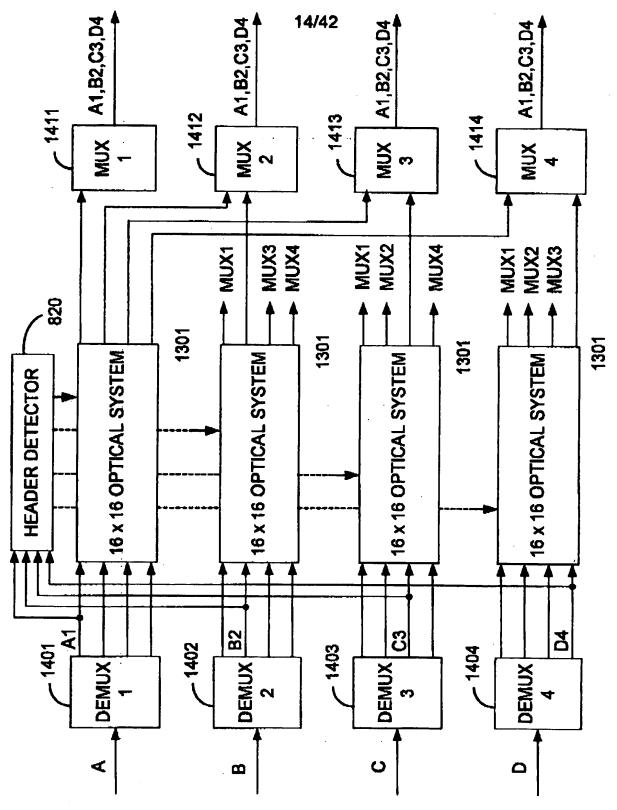
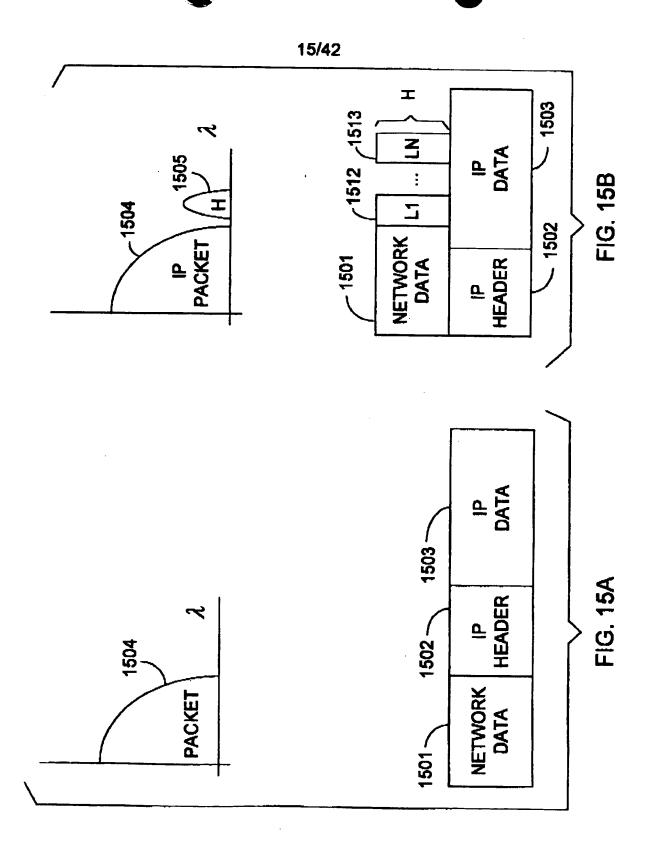
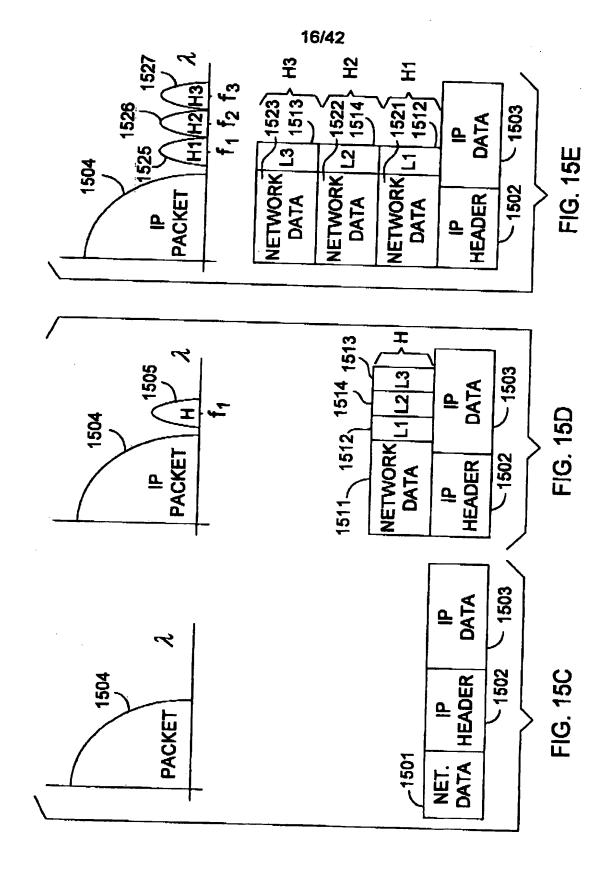


FIG. 14





17/42 1600 FIG. 16 1605 GENERATE PACKETS ELECTRONICALLY GENERATE OPTICAL-SWITCHING LABELS 1610 FOR MULTICAST ROUTING 1615 FORM HEADER FROM OPTICAL LABELS EMBED HEADER IN SAME WAVELENGTH AS 1620 DATA PAYLOAD AT AN INPUT NODE OF WDM **NETWORK TO FORM AN OPTICAL SIGNAL WHEREIN** THE HEADER OCCUPIES A FREQUENCY BAND ABOVE THAT OF THE DATA PAYLOAD 1625 PROPAGATE OPTICAL SIGNAL OVER WDM NETWORK READ HEADER TO DETERMINE OPTICAL LABELS FOR 1630 MULTICASTING OPTICAL SIGNAL AT NODES IN THE **OPTICAL NETWORK** PROCESS HEADER AT EACH NODE TO SUPPLY 1635 APPROPRIATE HEADER TO DATA PAYLOAD AT EACH NODE IN THE WDM NETWORK AT DESTINATION NODES FOR MULTICAST DATA 1640

AT DESTINATION NODES FOR MULTICAST DATA PAYLOAD, DETECT DATA PAYLOAD BY CONVERTING THE OPTICAL SIGNAL TO A CORRESPONDING ELECTRICAL SIGNAL REPRESENTATIVE OF THE INPUT PACKETS

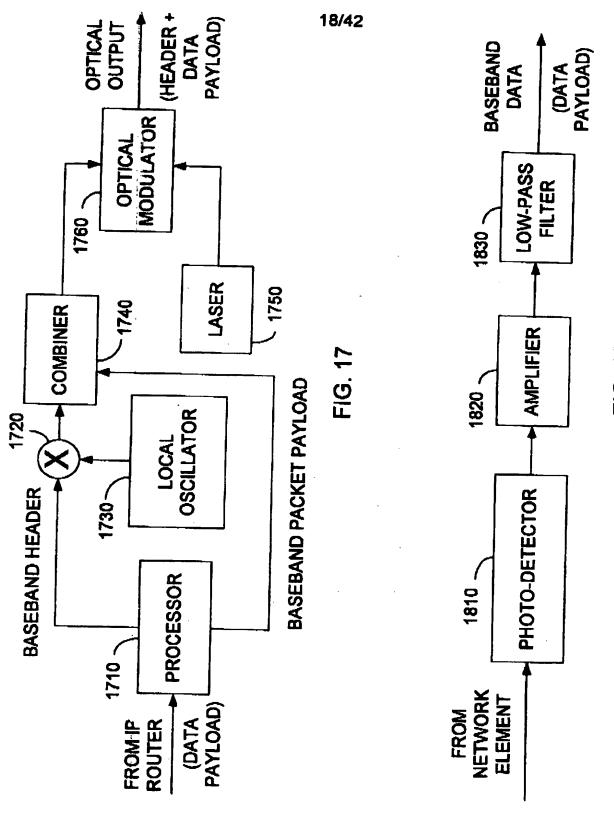
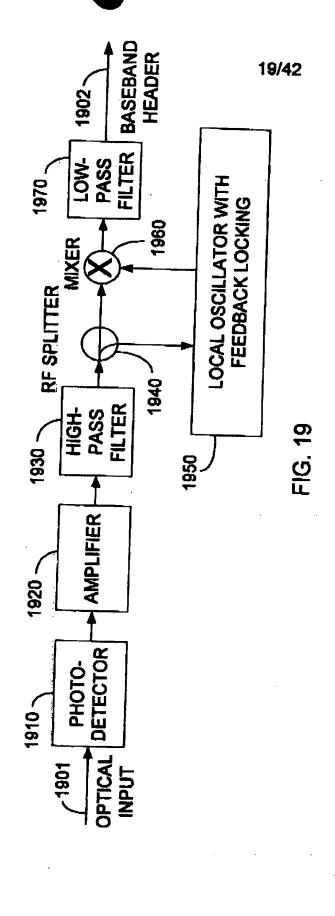
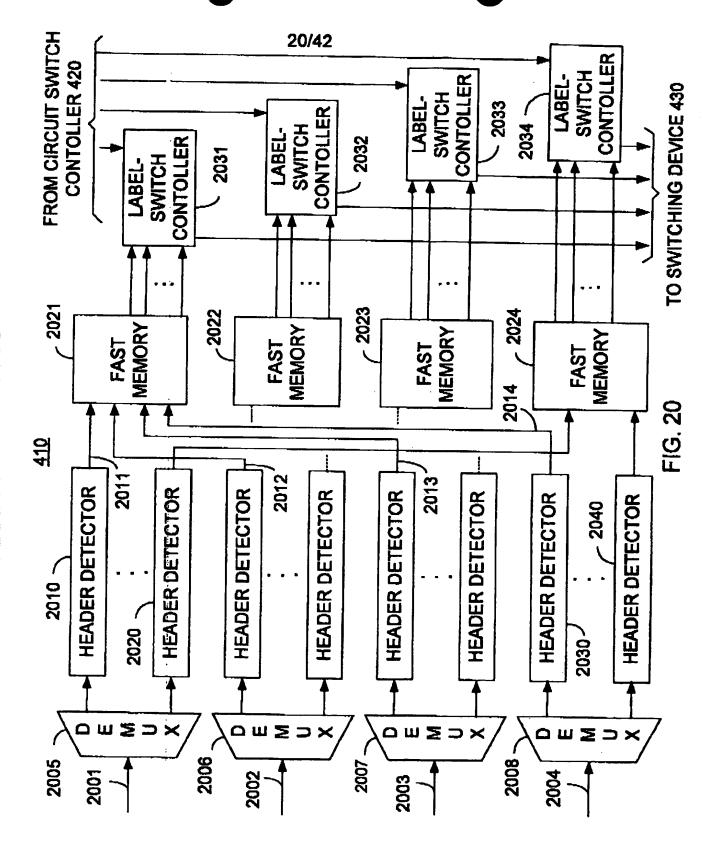
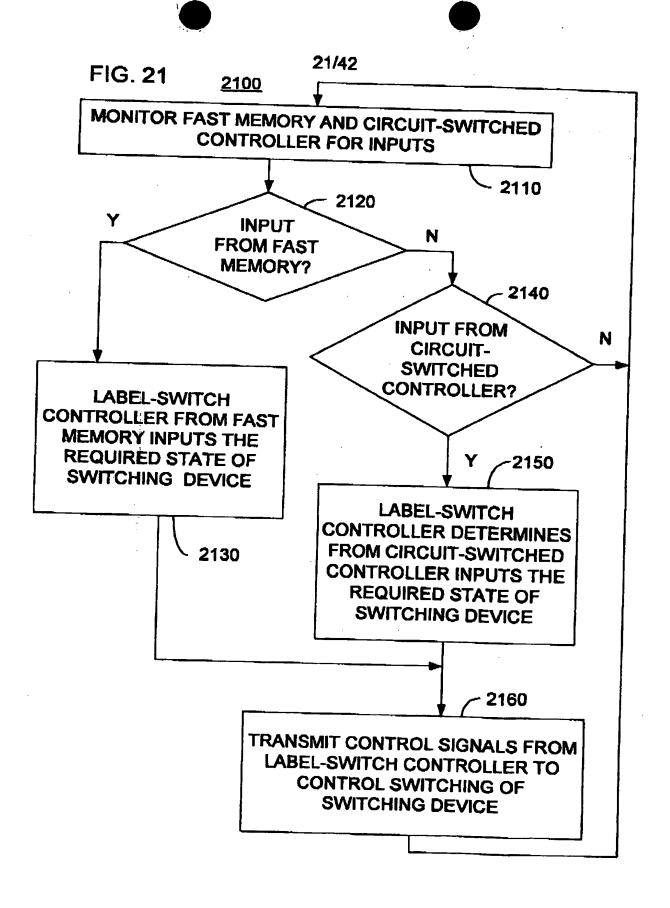
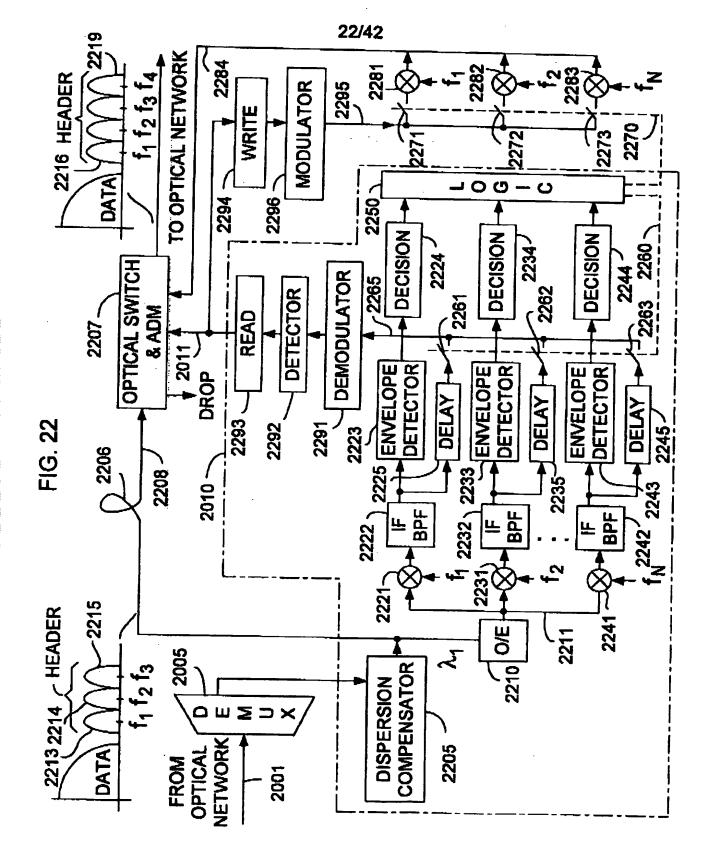


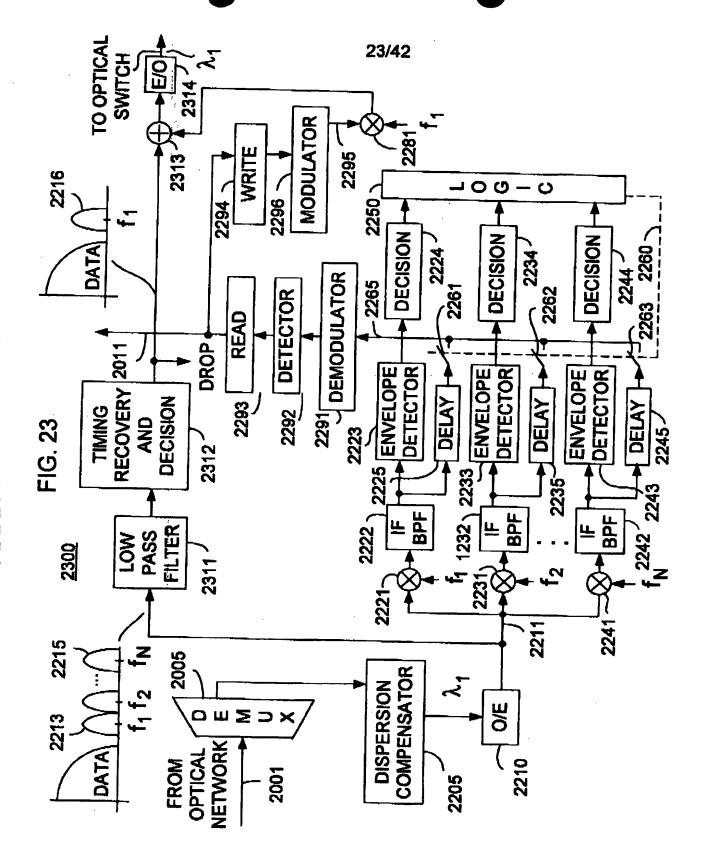
FIG. 18

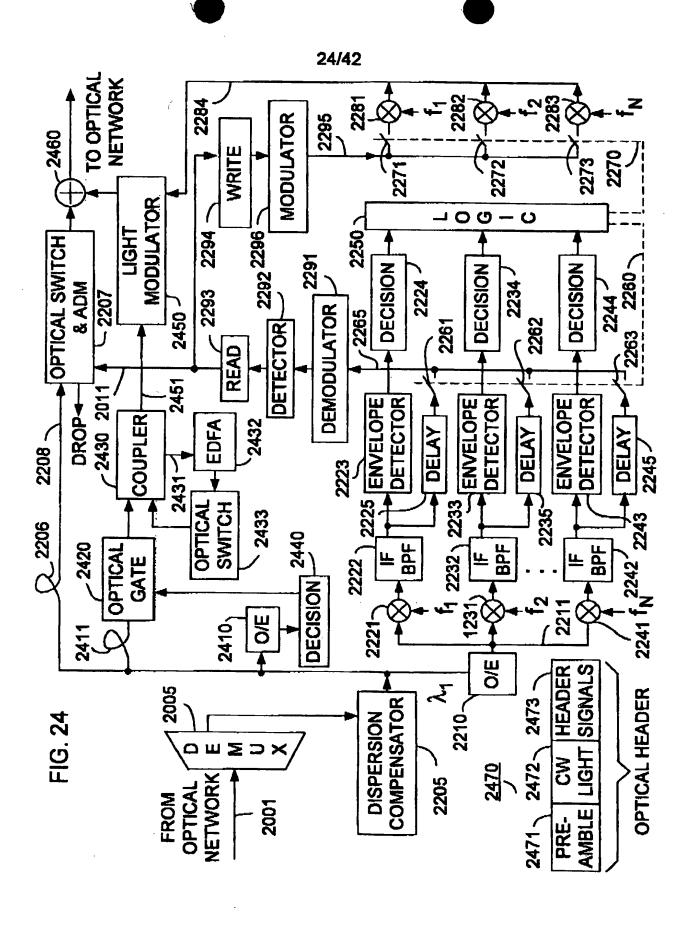


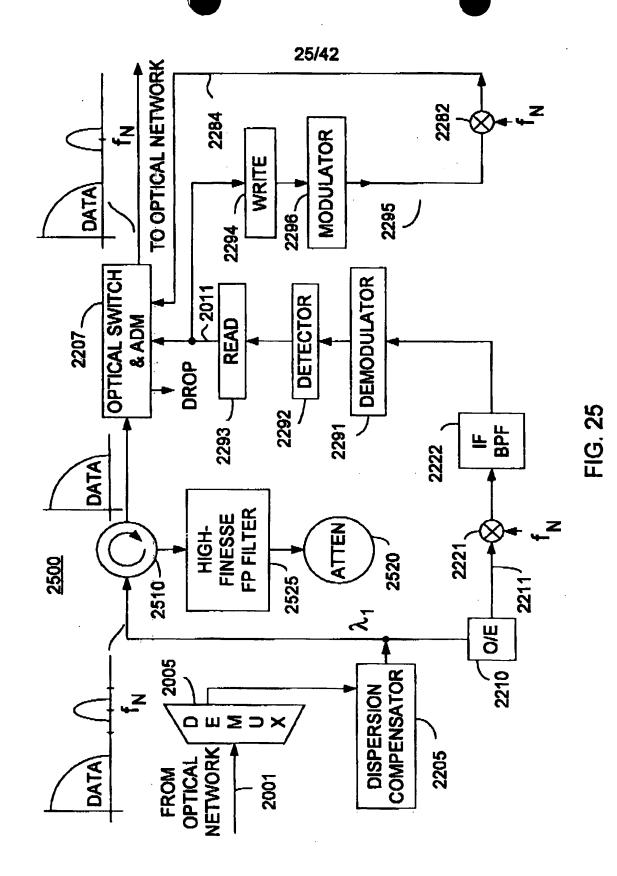












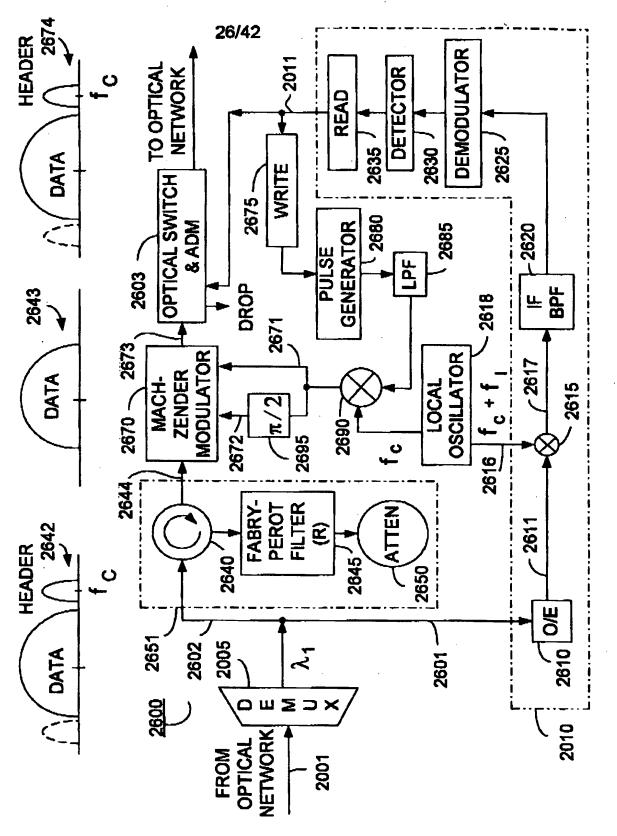


FIG. 26

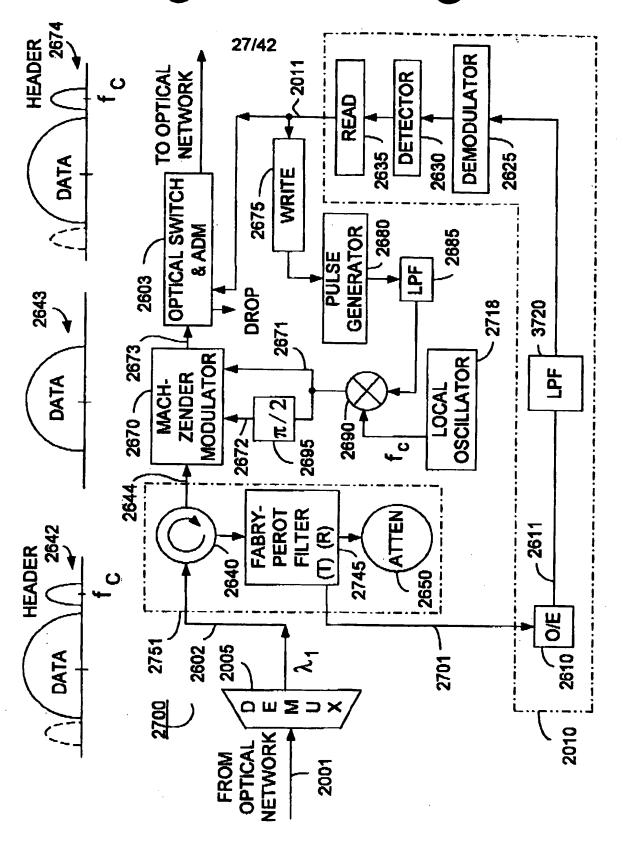
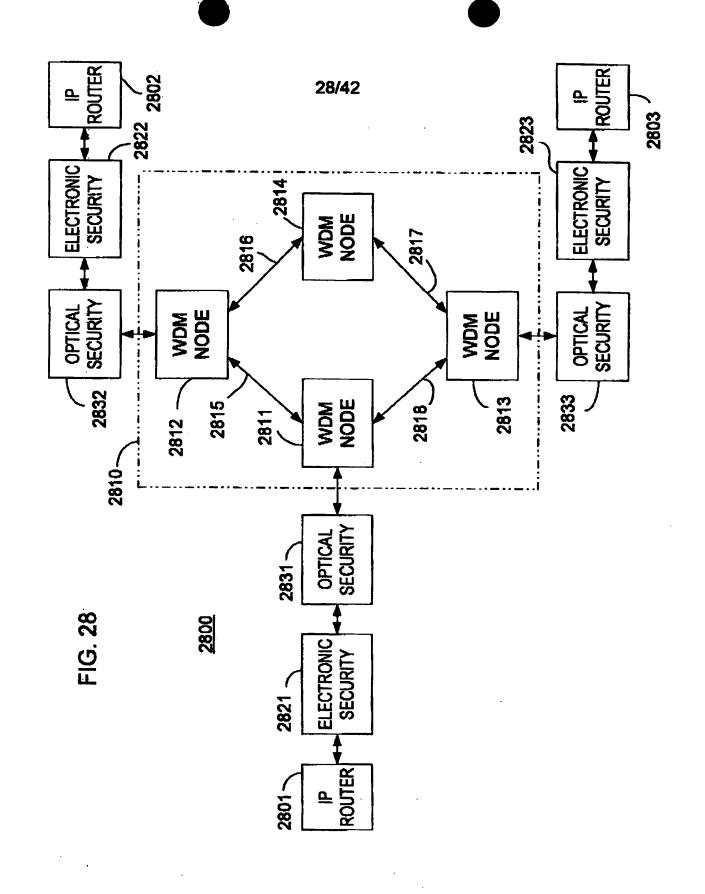


FIG. 27



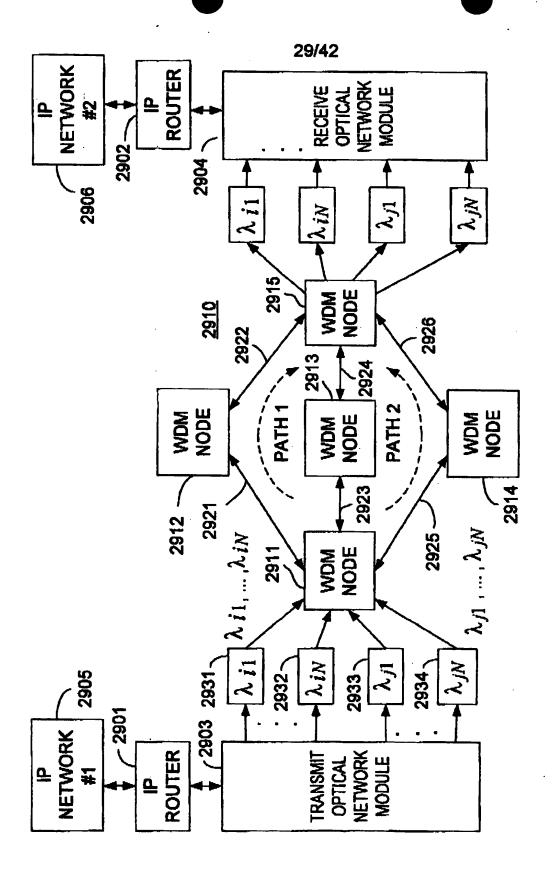
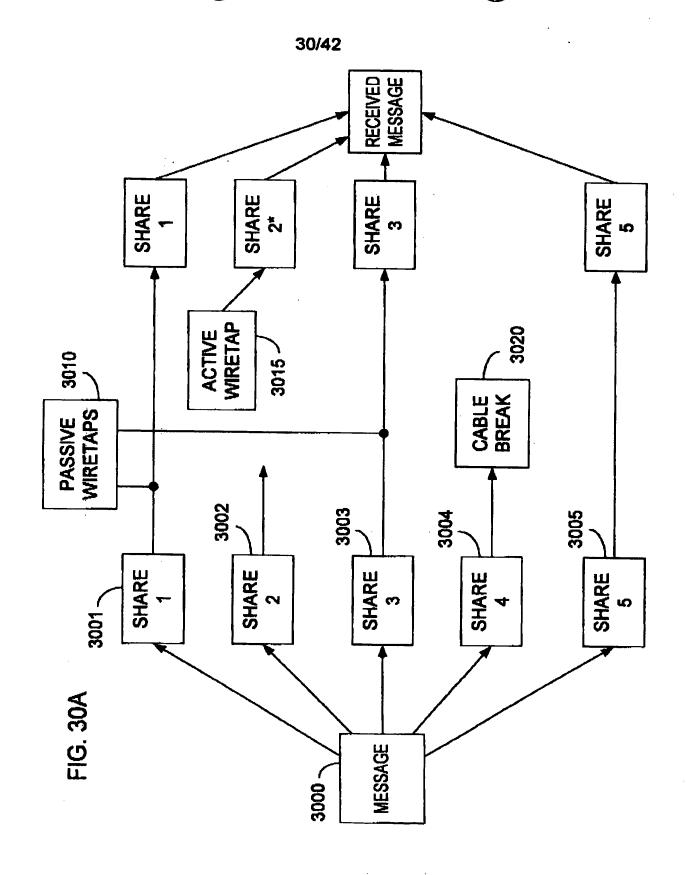
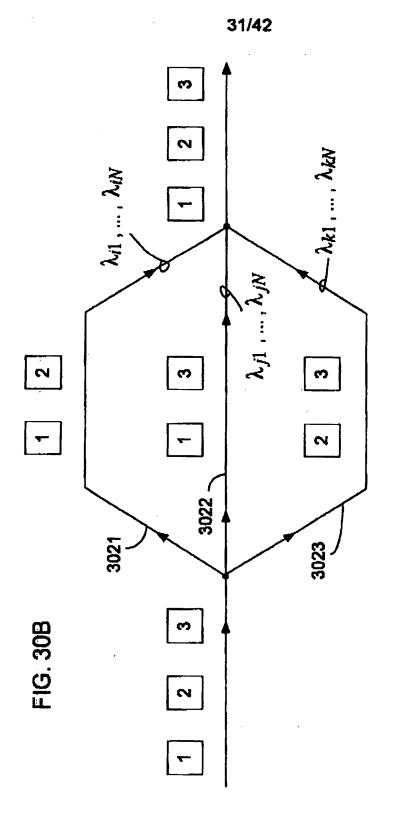


FIG. 29





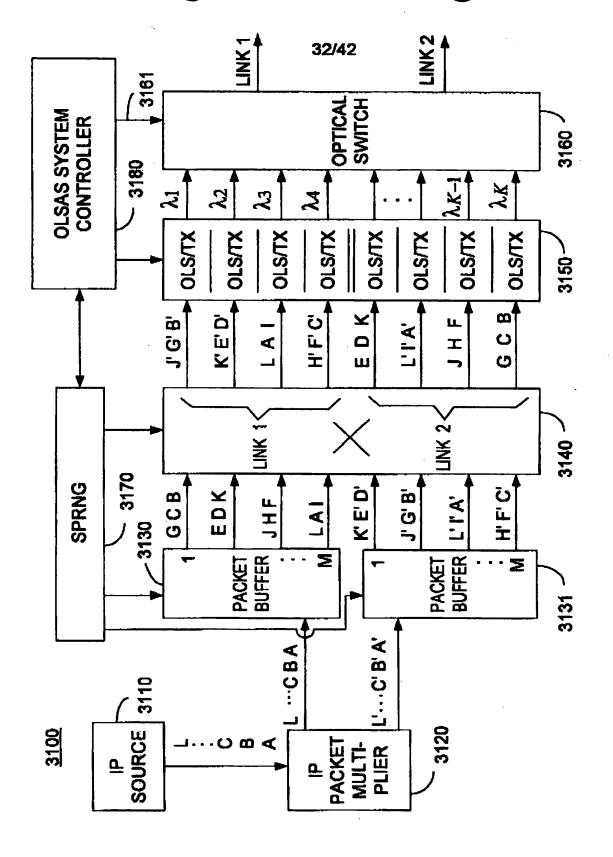
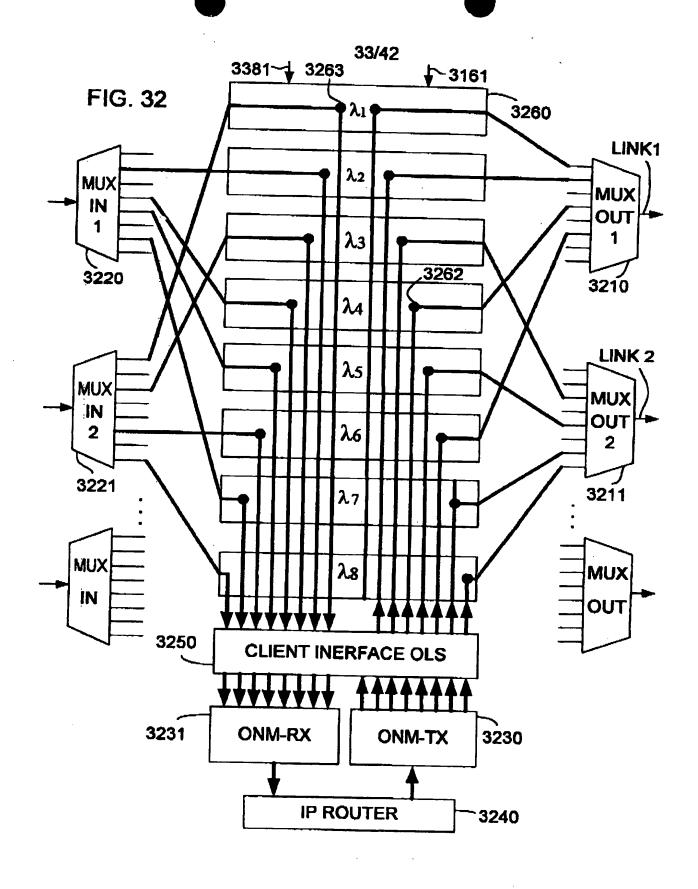


FIG. 31



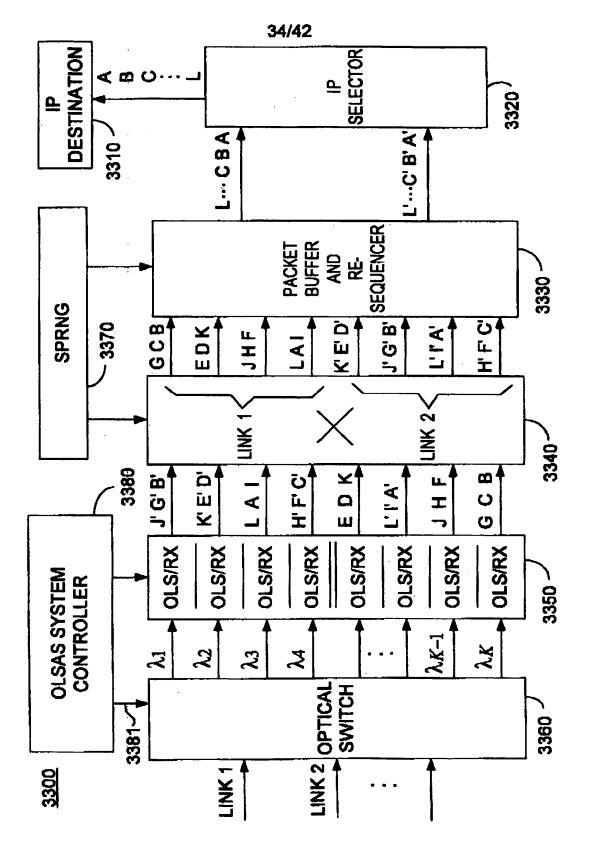


FIG. 33

